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Title: JP01119146A2: LOCAL AREA NETWORK OF CSMA/CD SYSTEM

Derwent Title: Local area network avoiding generation of collision - only station that received own address can resend data when collision is detected
NoAbstract Dwg 1/3 [\[Derwent Record\]](#)

Country: JP Japan

Kind: A

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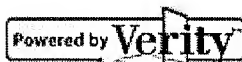
Abstract: PURPOSE: To prevent collision at the time of re-transmission of data by enabling only a station receiving its own station address to perform the re-transmission of the data when the collision is detected.

CONSTITUTION: A priority order decided in advance is applied after the collision is generated, and a network access right is attached on a station with the highest priority order out of network media access controllers(NMAC)14-0 ~ 14-3 in stations detecting the collision in transmitting the data. And only the station on which the access right is attached can perform the re-transmission of the data. Thus, the re-transmission of the data (packet) after the collision being generated is limited to one station. In such a way, the regeneration of the collision of the data can be evaded, and an average data re-transmitting time can be shortened, and it is possible to prevent the transfer capability of the data due to the increment of the number of stations to be connected to a network from being lowered and to improve the throughput of the whole of the net work.

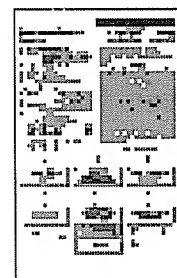
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